

INFORMATION DISCLOSURE CITATION

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ATTY DOCKET NO.

PER0025 (14285)

SERIAL NO.

09/595,996

APPLICANT(S)

Wangqi HOU, et al.

FILING DATE

June 16, 2000

GROUP

3672

U.S. PATENT DOCUMENTS

| *EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | NAME | CLASS | SUBCLASS | FILING DATE IF APPROPRIATE |
|----------------------|----|-----------------|----------|--------------------|-------|----------|-------------------------------|
| P7 | 1 | 3,811,504 | 5/21/74 | Flournoy, et al. | | | |
| | 2 | 3,811,507 | 5/21/74 | Flournoy, et al. | | | |
| | 3 | 3,506,071 | 4/14/70 | Jones, et al. | | | |
| | 4 | 3,637,017 | 1/25/72 | Gale, et al. | | | |
| | 5 | 3,811,505 | 5/21/74 | Flournoy, et al. | | | |
| | 6 | 3,939,911 | 2/24/76 | Maddox Jr., et al. | | | |
| | 7 | 3,954,627 | 5/4/76 | Dreher, et al. | | | |
| | 8 | 3,997,451 | 12/14/76 | Plummer, et al. | | | |
| | 9 | 4,042,030 | 8/16/77 | Savins, et al. | | | |
| | 10 | 4,110,229 | 8/29/78 | Carlin, et al. | | | |
| P7 | 11 | 4,110,232 | 8/29/78 | Schwab, et al. | | | |

RECEIVED

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FOREIGN PATENT DOCUMENTS

| | | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUBCLASS | TRANSLATION | |
|----|----|-----------------|---------|---------|-------|----------|-------------|----|
| | | | | | | | YES | NO |
| P7 | 42 | WO/99/36376 | 7/22/99 | PCT | | | | |
| P7 | 43 | 0 259 111 B1 | 10/7/91 | Europe | | | | |
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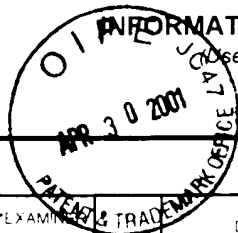
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

| | | | | | | | | |
|----|---|--|--|--|--|--|--|--|
| P7 | A | A Low -Tension Waterflooding Process, W.R. Foster, Journal of Petroleum Technology, Vol 25, pages 205-210, (February 1973) | | | | | | |
| | | Kirk-Othmer Encyclopedia of Chemical Technology, Vol. 18, 4th Ed., pages 404-433, 1996 | | | | | | |

EXAMINER

DATE CONSIDERED

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|----------------------|----|-----------------|----------|------------------|-------|----------|-------------------------------|
| PT | 12 | 4,124,073 | 11/7/78 | Wier | | | |
| | 13 | 4,125,158 | 11/14/78 | Waite, et al. | | | RECEIVED |
| | 14 | 4,138,345 | 2/6/79 | Williams | | | MAY 03 2001 |
| | 15 | 4,177,207 | 12/4/79 | Nussbaum, et al. | | | |
| | 16 | 4,193,452 | 3/18/80 | Wilson, et al. | | | TO 3600 MAIL ROOM |
| | 17 | 4,194,565 | 3/25/80 | Kalfoglou | | | |
| | 18 | 4,214,999 | 7/29/80 | Carlin, et al. | | | |
| | 19 | 4,232,737 | 11/11/80 | Tyler, et al. | | | |
| | 20 | 4,245,700 | 1/20/81 | Carter, et al. | | | |
| | 21 | 4,252,192 | 2/24/81 | Nussbaum, et al. | | | |
| W | 22 | 4,265,308 | 5/5/81 | Hedges, et al. | | | |

FOREIGN PATENT DOCUMENTS

| | | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUBCLASS | TRANSLATION | |
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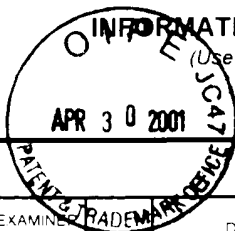
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

| | | |
|---|---|---|
| f | c | Enhanced Oil Recovery Using Lignosulphonate/Petroleum Sulphonate Mixtures, C. Chiwetelu, et al., Institution of Chemical Engineers, Vol. 60, 1982 |
| W | | Enhanced Oil Recovery by Displacement with Saline Solutions, Gulf Publishing Company Book Division, pages 34*53 (1980) |

EXAMINER

DATE CONSIDERED

*EXAMINER Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



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| ATTY DOCKET NO. PER0025 (14285) | SERIAL NO. 09/595,996 |
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| FILING DATE June 16, 2000 | GROUP 3672 |

U.S. PATENT DOCUMENTS

| *EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | NAME | CLASS | SUBCLASS | FILING DATE IF APPROPRIATE |
|----------------------|----|-----------------|----------|-----------------|-------|----------|-------------------------------|
| <i>FT</i> | 23 | 4,288,334 | 9/8/81 | McCoy, et al. | - | | |
| | 24 | 4,293,428 | 10/6/81 | Gale, et al. | ✓ | | RECEIVED |
| | 25 | 4,371,444 | 2/1/83 | McCoy, et al. | | | MAY 03 1991 |
| | 26 | 4,393,937 | 7/19/83 | Dilgren, et al. | | | TO 3600 MAIL ROOM |
| | 27 | 4,425,455 | 1/10/84 | Turner, et al. | | | |
| | 28 | 4,425,461 | 1/10/84 | Turner, et al. | | | |
| | 29 | 4,448,697 | 5/15/84 | McCoy | | | |
| | 30 | 4,458,048 | 7/3/84 | Schmitt | | | |
| | 31 | 4,458,052 | 7/3/84 | Schmitt | | | |
| | 32 | 4,488,976 | 12/18/84 | Dilgren, et al. | | | |
| <i>FT</i> | 33 | 4,525,522 | 6/25/85 | Turner, et al. | | | |

FOREIGN PATENT DOCUMENTS

| | | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUBCLASS | TRANSLATION | |
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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

| | | |
|-----------|---|---|
| <i>FT</i> | E | Aqueous Surfactant Systems for Oil Recovery, Journal of Petroleum Technology, February, 1973 |
| <i>FT</i> | | The Low-Tension Polymer Flood Approach to Cost-Effective Chemical EOR, SPE, DOE, 20220, (1990). |

| | |
|--------------------------------|------------------------------------|
| EXAMINER <i>1004549</i> | DATE CONSIDERED <i>6/16</i> |
|--------------------------------|------------------------------------|

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U.S. PATENT DOCUMENTS

| *EXAMINER INITIAL | DOCUMENT NUMBER | DATE | NAME | CLASS | SUBCLASS | FILING DATE IF APPROPRIATE |
|----------------------|-----------------|---------|------------------|-------|----------|-------------------------------|
| 34 | 4,529,522 | 7/16/85 | Schmitt | | | |
| 35 | 4,562,727 | 1/7/86 | Dilgren, et al. | | | |
| 36 | 4,579,669 | 4/1/86 | Walker, et al. | | | |
| 37 | 4,579,671 | 4/1/86 | Lundberg, et al. | | | |
| 38 | 4,615,393 | 10/7/86 | Sedillo, et al. | | | |
| 39 | 5,100,952 | 3/31/92 | Hoskin, et al. | | | |
| 40 | 5,360,787 | 11/1/94 | Bloys, et al. | | | |
| 41 | 5,911,276 | 6/15/99 | Kieke | | | |
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MAY 03 2001

TO 3600 MAIL ROOM

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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

| | | |
|--|--|---|
| | | Surfactant-Enhanced Alkaline Flooding at Intermediate pH, Department of Chemical Engineering, Illinois Institute of Technology, Chicago, IL, 60616, No. 280, Vol. 87, NO DATE |
| | | |

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|----------|-----------------|
| EXAMINER | DATE CONSIDERED |
|----------|-----------------|

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